

SEEDBED PREPARATION IMPLEMENT HAVING ROTARY DISC WITH ADJUSTABLE GANG ANGLE

ABSTRACT

A disc gang is provided that is suitable for use as part of a multifunctional seedbed preparation implement or in a standalone disc harrow. The disc gang is configured to permit a gang angle of the disc gang to be adjusted to accommodate differing soil conditions and/or to obtain different tillage characteristics. The disc gang may include a frame mounted on a mainframe of a primary tillage implement such as a cultivator. The frame includes a main beam mounted on the implement's mainframe and a disc support beam connected to the main beam and supporting a plurality of rotating discs. The gang angle can be infinitely adjusted through a designated range by pivoting one end of the disc gang about a vertical pivot axis while permitting another end portion of the disc gang to slide along a support surface for that end. The disc support beam may also be configured to be raised and lowered relative to the main beam so as to permit the cutting depth of the discs to be adjusted independently of the working depth of the remainder of the implement. The disc gang preferably is modular so as to negate the need for complex mechanical and hydraulic connections between the disc gang and the remainder of the implement.